

# HALLIBURTON

iCem<sup>®</sup> Service

## **EXTRACTION OIL & GAS**

Date: Monday, May 06, 2019

### **Coyote Trails 33W-15-5N Surface**

Job Date: Sunday, May 05, 2019

Sincerely,  
**Bryce Hinsch**

## Legal Notice

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### Disclaimer:

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## 1.0 Cementing Job Summary

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### 1.1 Executive Summary

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Halliburton appreciates the opportunity to perform the cementing services on the **Coyote Trails 33W-15-5N** cement **surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

**Approximately 21 bbls of cement were returned to surface.**

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

**Halliburton Fort Lupton**

*The Road to Excellence Starts with Safety*

Sold To #: 369404	Ship To #: 3912862	Quote #:	Sales Order #: 0905664023
Customer: EXTRACTION OIL & GAS -		Customer Rep: JUSTIN HUMPHRIES	
Well Name: COYOTE TRAILS		Well #: 33W-15-5N	API/UWI #: 05-123-48247-00
Field: WATTENBERG	City (SAP): ERIE	County/Parish: WELD	State: COLORADO
Legal Description: SW SE-28-1N-68W-1150FSL-2391FEL			
Contractor: Justin Humphries		Rig/Platform Name/Num: Cartel 15	
Job BOM: 7521 7521			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX38199		Srvc Supervisor: Jerald Watson	

**Job**

<b>Formation Name</b>			
<b>Formation Depth (MD)</b>	<b>Top</b>	<b>Bottom</b>	
<b>Form Type</b>		<b>BHST</b>	
<b>Job depth MD</b>	1615ft	<b>Job Depth TVD</b>	1615'
<b>Water Depth</b>		<b>Wk Ht Above Floor</b>	0'
<b>Perforation Depth (MD)</b>	<b>From</b>	<b>To</b>	

**Well Data**

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Open Hole Section			13.5					1617		
Casing		9.625	8.921	36				1615		

**Tools and Accessories**

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625				Top Plug	9.625	1	HES
Float Shoe	9.625	1	HES	1615	Bottom Plug	9.625		HES
Float Collar	9.625	1	HES	1572	SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625	1	HES
Stage Tool	9.625				Centralizers	9.625	4	HES

**Fluid Data**

<b>Stage/Plug #: 1</b>										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Red Dye Spacer	Red Dye Spacer	10	bbl	8.33			4		

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	SwiftCem	SWIFTCEM (TM) SYSTEM	550	sack	13.5	1.74		8	9.2	
9.20 Gal		<b>FRESH WATER</b>								
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
3	Fresh Water	Fresh Water	122	bbl	8.33			8		
Cement Left In Pipe		<b>Amount</b>	43 ft		<b>Reason</b>			<b>Shoe Joint</b>		

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate <i>(bbl/min)</i>	DH Density <i>(ppg)</i>	DS Pump Press <i>(psi)</i>	Pump Stg Tot <i>(bbl)</i>	Comments
Event	1	Arrive at Location from Other Job or Site	Arrive at Location from Other Job or Site	5/4/2019	15:00:00	USER					STAYED ON LOCATION FOR THE NEXT JOB, O/L 0400
Event	2	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	5/5/2019	03:00:00	USER					TEST WATER, CHECK MATERIALS, GET NUMBERS FROM THE COMPANY MAN AND TALK ABOUT SPOTTING EQUIPMENT.
Event	3	Safety Meeting - Pre Rig-Up	Safety Meeting - Pre Rig-Up	5/5/2019	03:15:00	USER					DISCUSS HAZARDS ASSOCIATED WITH TASK
Event	4	Rig-Up Equipment	Rig-Up Equipment	5/5/2019	03:30:00	USER					RIG UP ALL EQUIPMENT
Event	5	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/5/2019	06:30:00	USER	0.10	0.00	-4.00	5.90	DISCUSS HAZARDS ASSOCIATED WITH THE JOB WITH EVERYONE INVOLVED WITH THE JOB AS WELL AS WHAT NEEDS TO BE DONE IN CASE OF EMERGENCY OR IF WE NEED TO EVACUATE LOCATION.
Event	6	Test Lines	Test Lines	5/5/2019	06:48:58	COM4	0.00	8.38	42.00	10.30	TEST LINES TO 2000 PSI
Event	7	Pump Spacer 1	Pump Spacer 1	5/5/2019	06:51:02	COM4	0.10	8.36	13.00	10.40	10 DYED H2O, 4 BPM, 107 PSI, 8.33 PPG
Event	8	Pump Cement	Pump Cement	5/5/2019	06:54:44	COM4	4.00	11.47	115.00	14.10	170 CEMENT, 8 BPM, 415 PSI, 550 SKS, 13.5 PPG, 1.74 YIELD, 9.2 GAL/SK
Event	9	Drop Top Plug	Drop Top Plug	5/5/2019	07:18:29	COM4	0.00	14.44	118.00	180.70	HES PLUG
Event	10	Pump Displacement	Pump Displacement	5/5/2019	07:19:15	COM4	0.00	13.99	4.00	0.00	122 H2O, 10 BPM, 322 PSI, 8.33 PPG, 21 BBL CEMENT TO SURFACE

Event	11	Bump Plug	Bump Plug	5/5/2019	07:37:24	COM4	0.00	8.31	1230.00	124.30	BUMP AT 550 PSI, TOOK TO 1200 PSI
Event	12	Other	CHECK FLOATS	5/5/2019	07:38:30	COM4	0.00	8.31	1235.00	124.30	.5 BBL BACK
Event	13	Post-Job Safety Meeting (Pre Rig-Down)	Post-Job Safety Meeting (Pre Rig-Down)	5/5/2019	07:50:00	USER					DISCUSS HAZARDS INVOLVED AND IF ANYTHING IS STAYING ON LOCATION
Event	14	Rig-Down Equipment	Rig-Down Equipment	5/5/2019	08:00:00	USER					RIG DOWN ALL EQUIPMENT
Event	15	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/5/2019	08:45:00	USER					CHECK WITH EVERYONE TO SEE IF THEY ARE FIT TO DRIVE AND LEGAL TO DRIVE AND SEE WHAT THEIR PLANS ARE AS WELL AS DISCUSS ANY OTHER JOB THAT MAY NEED TO BE COVERED AFTER LEAVING LOCATION.
Event	16	Crew Leave Location	Crew Leave Location	5/5/2019	09:00:00	USER					EVERYONE LEAVES LOCATION

3.0 Attachments

3.1 Extraction Coyote Trails 33W-15-5N Surface Chart

